



COAL MINING RISK ASSESSMENT REPORT

For

P AND DJ. ATKINSON AND SON LTD

On a Site at

BARNSELEY ROAD, GOLDTHORPE



24th April 2012
Job No: J-D0961.00
Report Ref: J-D0961.00_R1_PT

Coal Mining Risk Assessment Report

For
**P AND DJ. ATKINSON AND SON
LIMITED**

On a Site at
Barnsley Road, Goldthorpe

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EXECUTIVE SUMMARY
(Barnsley Road, Goldthorpe)

Location:	<i>The site is situated in Goldthorpe, South Yorkshire, and can be accessed via Barnsley Road which forms the southern site boundary.</i>
Geology & Hydrogeology:	<i>Solid – Undifferentiated mudstones and sandstones of the Middle Coal Measures</i> <i>Drift – No drift deposits are shown on site.</i> <i>Faults – No known surface faults are shown crossing the site.</i> <i>Groundwater – Secondary (A) aquifer (formerly minor aquifer).</i>
Mineral Extraction:	<i>Coal Mining – The Shafton Coal is present beneath the site but at such a depth that no remedial works are required.</i> <i>– No faults or other lines of weakness affect the site.</i> <i>– A mine shaft is known to be present beyond the northern site boundary below the southern carriageway of the A635</i>

A. FACTUAL INFORMATION

1.0 INTRODUCTION

- 1.1 This report describes a coal mining risk assessment undertaken on behalf of P and DJ. Atkinson and Son Ltd on a site off Barnsley Road, Goldthorpe, South Yorkshire.
- 1.2 This coal mining risk assessment desk study has been carried out on the assumption that the site is to be developed with hotel, pub/restaurant and two roadside diners
- 1.3 This report has been prepared by Opus International Consultants UK Limited (OIC) with all reasonable skill, care and diligence within the terms of the Contract with the client P and DJ. Atkinson and Son Ltd, and taking account of the information made available by the client, as well as the manpower and resources devoted to it by agreement with the client. OIC disclaims any responsibility to the client and others in respect of any matters outside the scope of the above Contract.
- 1.4 The objectives of the investigation were to procure reports and information relating to the historical coal mine workings at the site to identify risks, provide recommendations for remedial measures to mitigate against the identified risks in order to facilitate construction of the proposed development.
- 1.5 This report has been produced on behalf of The Client, P and DJ. Atkinson and Son Ltd and no responsibility is accepted to any Third Party for all or any part. This report should not be relied upon or transferred to any other parties without the express written authorisation of OIC. If any unauthorised Third Party comes into possession of this report, they rely on it at their own risk and the authors owe them no duty of care or skill.
- 1.6 The findings and opinions conveyed via the desk study within this report are based on information obtained from a variety of sources, as detailed, which OIC believes are reliable. Nevertheless, OIC cannot and does not guarantee the authenticity or reliability of the information it has relied upon from these sources.

2.0 THE SITE

2.1 Location & Access

- 2.1.1 The site is triangular in shape, approximately 1.98 hectares in area and is situated between the A635 (Dearne Valley Parkway) and Barnsley Road.
- 2.1.2 The site location is shown on the appended Drawing No. J-D0961.00/401 and is centred on approximate National Grid Reference 445010, 404280.
- 2.1.3 Access to the site can be currently gained via a farm gate off Barnsley Road which forms the site's southern boundary.

2.2 Site Description

- 2.2.1 The site is a triangular shaped piece of land bounded to the south by Barnsley Road and to the north and west by the A635. A residential development is present to the east forming the eastern site boundary.
- 2.2.2 The site is an open farmer's field with several hedgerows containing varying species including Hawthorn present defining the southern site boundary.
- 2.2.3 The site slopes gently from the south (Barnsley Road) to the north (A635).

3.0 DESK STUDY

3.1 Sources of Information

3.1.1 The following sources of information have been consulted as part of the desk study for the site;

- (a) BGS Geological Mapping
- (b) Coal Authority Coal Mining Report
- (c) Coal Authority Mining Abandonment Plan

3.2 Geology, Hydrogeology and Hydrology

3.2.1 According to the inspected published geological information, the site is not shown to be overlain by any superficial deposits.

3.2.2 A review of 1:50,000 British Geological Survey plan for 'Barnsley' sheet 87 and the 1:10,560 sheets SE40SW and SE40SE, show the underlying solid strata to comprise undifferentiated mudstones, siltstones and sandstones of the Middle Coal Measures.

3.2.3 The geological plans also show the Highgate Seam to outcrop to the north east of the site, with the Shafton seam outcropping to the south of the site. Both seams of coal dip in a north easterly direction at an angle of approximately 3 degrees.

3.2.4 An extract from the Geological Plan showing the site is presented on Drawing J-D0961.00/402.

3.3 Mineral Extraction

3.3.1 Goldthorpe is listed within the Law Society's Guidance Notes and Directory for Coal Mining Searches as requiring a Coal Mining Report.

3.3.2 A Coal Mining Report has been commissioned from the Coal Authority and is presented in Appendix 'A'.

3.3.3 The report states that the site is in the likely zone of influence from workings in five seams of coal at depths ranging from 270 to 810m. The last date of working was 1990. All movement associated with these workings should have ceased by now.

3.3.4 The report also states that coal lies at or close to surface which may have been worked historically.

3.3.5 The site does not lie within the likely zone of influence of any present underground coal workings. The site is not within an area for which a licence to remove coal by underground methods is pending or been granted. However reserves of coal do exist in the local area which could be worked at some time in the future.

3.3.6 The site does not lie within the geographical boundary of a past opencast site by which coal has been extracted by opencast methods.

- 3.3.7 The site does not lie within 200m of the geographical boundary of a present opencast.
- 3.3.8 The site does not lie within 800m of the geographical boundary of a future opencast site by which coal is planned to be extracted by opencast methods.
- 3.3.9 There is one coal mine entry recorded on, or within 20m of the site. This refers to shaft 445404-009 which is recorded as infilled and was encountered by Barnsley Metropolitan Council during the construction of the Dearne Towns Link Road (A635). The shaft is shown to be present beyond the northern boundary beneath the southern carriage way of the A635.
- 3.3.10 No faults or other lines of weakness at the surface having affected the stability of the property.
- 3.3.11 There are three BGS recorded mineral sites located within 300m of the site, these are the Highgate Opencast situated 189m to the south west. The Goldthorpe Brickworks situated 213m to the south west, and the Woodbine Extension Opencast situated 314m to the south west. All operations relating to these sites have now ceased.

B. ASSESSMENT & RECOMMENDATIONS

4.0 INTRODUCTION

- 4.1 This report has been prepared on the understanding that the site is to be developed with hotel, pub/restaurant and two roadside diners. Should the proposed site usage change significantly from the above, the contents of this report will require review and amendment as appropriate.
- 4.2 Based on the geological information, it is anticipated that ground conditions will generally comprise Topsoil underlain by Clay, in turn underlain by mudstone / sandstone / siltstone. Significant made ground is not anticipated to be present at the site.

5.0 MINING ASSESSMENT

5.1 Evidence of Shallow Mining

- 5.1.1 The Coal Authority Report highlighted the potential for seams of coal to be present at shallow depth beneath the site. As such a review of the 1:10,560 geological plan and archival abandonment plans were reviewed.
- 5.1.2 A review of the geological plan indicated that the shallowest coal seam likely to be present beneath the site is the Shafton Seam. Based on site topography and the known outcrops of the Shafton seam, it is calculated that the seam would be present beneath the site at depths in excess of twenty five metres.
- 5.1.3 The maximum recorded thickness of the Shafton Coal in this area is 1.50m with a regional dip of 3 degrees. It is not anticipated that rockhead will be overlain by significant thicknesses of weathered rock or superficial deposits. Local knowledge of this area indicates that rockhead is likely to be at around 2m below existing ground level. As such, a seam thickness to rock cover ratio in the order of fifteen times is considered likely to be present.
- 5.1.4 It is recognised within CIRIA special publication 32 'Construction over Mine Workings' that a rock cover to seam ratio of 10 times is generally acceptable and therefore no investigation of this coal seam is considered necessary.
- 5.1.5 In addition to the Shafton Seam, the Highgate Seam is also known to outcrop close to the site. A review of the geological plans, indicates that the Highgate Seam is likely to be present to the north and east of the site as shown by the presence of historic opencast mining, however no evidence of the seam is shown on site. The Highgate Seam is 0.50m thick and has historically been extracted by opencast methods in this area rather than underground mining.

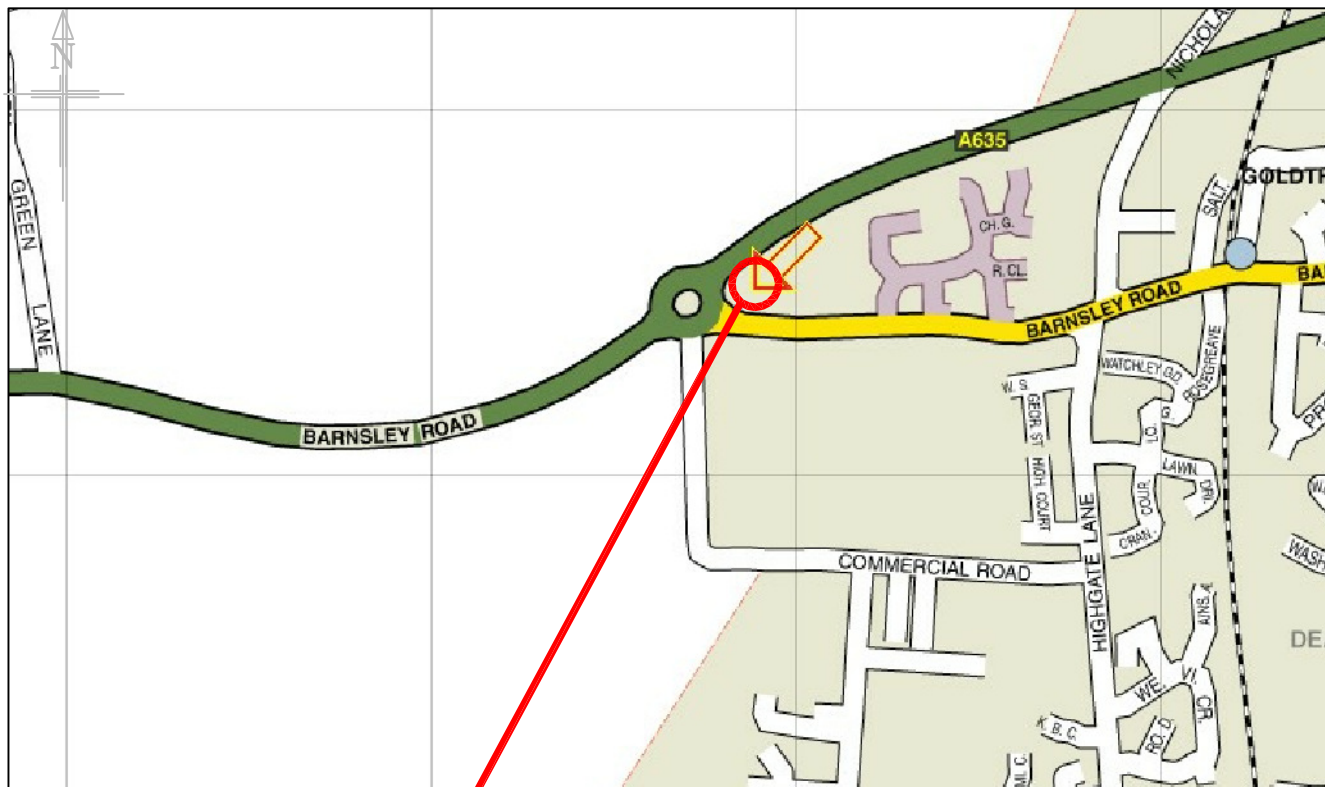
5.2 Abandoned Mine Entries

- 5.2.1 There is one known mine entry within 20m of the site boundary.
- 5.2.2 The mine entry refers to shaft 445404-009 which is recorded as in filled and was encountered by Barnsley Metropolitan Council during the construction of the Dearne Towns Link Road (A635). The shaft is shown to be present beyond the northern boundary beneath the southern carriage way of the A635.
- 5.2.3 The site does not lie within the boundary or within 200m of the boundary of a past or present opencast site. The site is not within 800m of the boundary of an opencast site awaiting or holding a licence to extract coal.

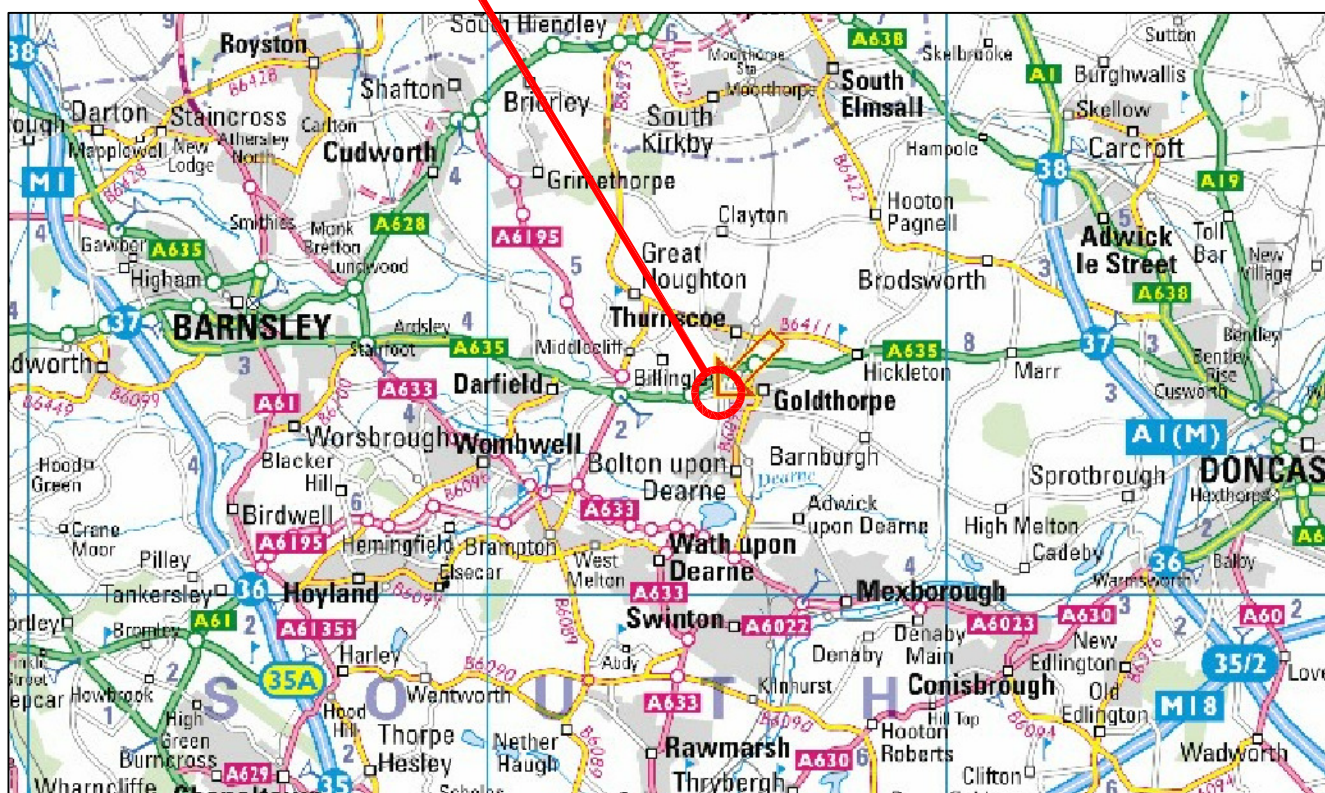
5.3 Stability Assessment Criteria

- 5.3.1 No faults or other lines of weakness are shown at the surface potentially having affected the stability of the property.
- 5.3.2 The stability of the site is not considered to be at risk from any underground coal mining and does not require stabilisation.

DRAWINGS



SITE LOCATION
 Barnsley Road, Goldthorpe
 Grid Ref 445035 404286
 Post Code S63 9LB



PRELIMINARY

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Project
 Barnsley Road
 Goldthorpe

Sheet
 Site Location Plan

Revision	Amendment	Approved	Date	Drawn	Designed	Approved	Revision Date	Project No.	Scale	Drawing No.	Sheet No.	Revision
R0	First Issue	SLR	24/04/12	MJ	SLR	SLR	17/04/12	J-D0961.00	NTS	DO J-D0961.00	401	R0

APPENDIX A

Coal Mining Report

The COAL AUTHORITY

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG

Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

**LANDMARK INFORMATION GROUP
LIMITED
SOWTON INDUSTRIAL ESTATE
ABBEY COURT
UNIT 5/7 EAGLE WAY
EXETER
DEVON
EX2 7HY**

Our reference: **51000065167001**
Your reference: **38470794**
Date of your enquiry: **12 April 2012**
Date we received your enquiry: **12 April 2012**
Date of issue: **12 April 2012**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal Authority Mining Report

**SITE AT MOTORIST DISCOUNTS, 55-57 DONCASTER ROAD, GOLDTHORPE, ROTHERHAM,
SOUTH YORKSHIRE,**

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

The property is in the likely zone of influence from workings in 5 seams of coal at 270m to 810m depth, and last worked in 1990.

Any ground movement from these coal workings should have stopped by now.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

Within, or within 20 metres of, the boundary of the property there is 1 mine entry, the approximate position of which is shown on the attached plan.

Our records disclose the following information:

445404-009. is filled and was located by drilling during investigations for Dearne Towns Link Road by Barnsley MBC.

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

For an additional fee, the Coal Authority will provide a supplementary Mine Entry Interpretive Report. The report will provide a separate assessment for the mine entry (entries) referred to in this report. It will give details based on information in the Coal Authority's possession, together with an opinion on the likelihood of mining subsidence damage arising from ground movement as a consequence of the existence of the mine entry/entries. It will also give details of the remedies available for subsidence damage where the mine entry was sunk in connection with coal mining. Please note that it may not be possible to produce a report if the main building to the property cannot be identified from Coal Authority plans (ie. for development sites and new build).

For further advice on how to order this additional information visit www.groundstability.com or telephone 0845 7626 848.

Coal mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast coal mining

Past

The property is within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, since 31st October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of support

The property is in an area for which notices of entitlement to withdraw support were published in 1960, 1980, 1983.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

Working facilities orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to owners of former copyhold land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Comments on Coal Authority information

The attached plan shows the approximate location of the disused mine entry/entries referred to in this report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence act 1991*). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and the obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by telephoning 0845 762 6848 or online at www.coal.decc.gov.uk/en/coal/cms/services/claims.

If you wish to discuss the relevance of any of the information contained in this report you should seek the advice of a qualified mining engineer or surveyor. If you or your adviser wish to examine the source plans from which the information has been taken these are normally available at our Mansfield office, free of charge, by prior appointment, telephone 01623 637235. Should you or your adviser wish to carry out any physical investigations that may enter, disturb or interfere with any disused mine entry the prior permission of the owner must be sought. For coal mine entries the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries). Our emergency telephone number at all times is 01623 646333.

*Note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the

public safety implications of any development in these circumstances.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

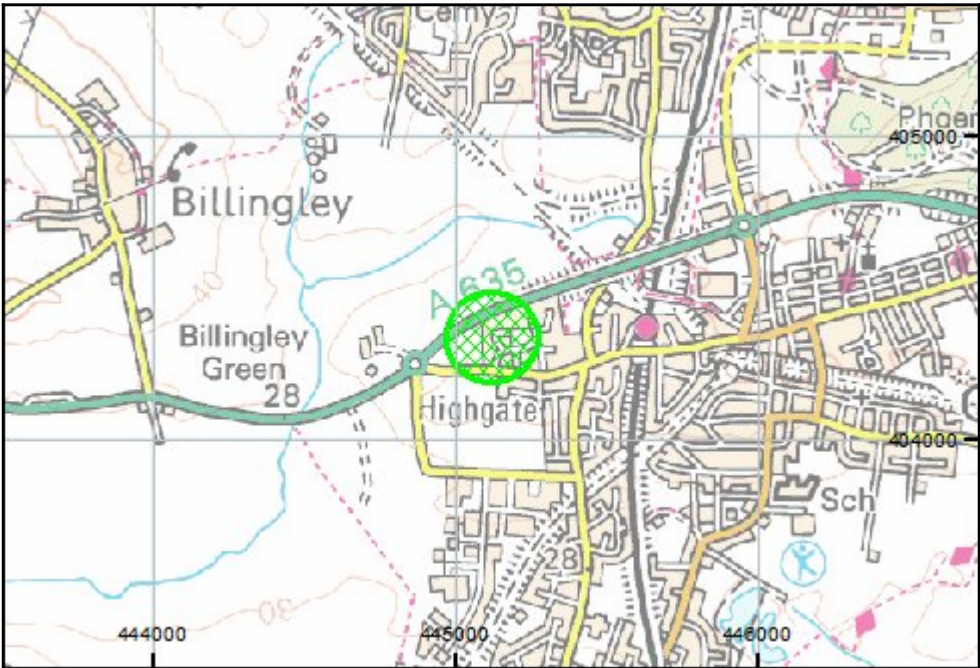
Additional Remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The Coal Authority owns the copyright in this report. The information we have used to write this report is protected by our database right. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

Location map



Approximate position
of property



Enquiry boundary

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Key

Approximate position of enquiry
boundary shown

Disused Adit or Mineshaft

